



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 22/09/2018

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura
2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9
vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura
,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyananyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P)
Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-31 /03

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC	M20	15/09/2018	22/09/2018	150.38 X	22605	8.312	266.7	11.8	12.5
					150.32 X					
					150.44					
2	RMC	M20	15/09/2018	22/09/2018	150.46 X	22641	8.331	289.8	12.8	
					150.48 X					
					150.34					
3	RMC	M20	15/09/2018	22/09/2018	150.43 X	22622	8.345	291.8	12.9	
					150.38 X					
					150.32					

Note:

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****End of Report****

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 13/10/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment, Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-09-2018
Sample ID No : 2018-12-07-31 /04
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	15/09/2018	13/10/2018	150.32 X 150.54 X 150.35	22629	8.312	382.4	16.9	17.6
2	RMC	M20	15/09/2018	13/10/2018	150.44 X 150.41 X 150.35	22628	8.331	409.6	18.1	
3	RMC	M20	15/09/2018	13/10/2018	150.38 X 150.46 X 150.47	22626	8.345	405.0	17.9	

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 22/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura
2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura
4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-31 /05

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	15/09/2018	22/09/2018	150.32 X 150.44 X 150.46	22614	8.312	284.9	12.6	12.4
2	RMC	M20	15/09/2018	22/09/2018	150.48 X 150.34 X 150.43	22623	8.331	291.8	12.9	
3	RMC	M20	15/09/2018	22/09/2018	150.51 X 150.32 X 150.37	22625	8.345	267.0	11.8	

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FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO
Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 13/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-31 /06

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	15/09/2018	13/10/2018	150.44 X 150.51 X 150.45	22643	8.312	403.0	17.8	17.9
2	RMC	M20	15/09/2018	13/10/2018	150.38 X 150.35 X 150.38	22610	8.331	397.9	17.6	
3	RMC	M20	15/09/2018	13/10/2018	150.46 X 150.47 X 150.46	22640	8.345	412.0	18.2	

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 Date: 22/09/2018
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura
2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9
vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura
4)Improvements to road and Drains at Gurusharshan layout in ward no 09Vidyananyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Apartment, Amruthahalli, Sahakaranagara (P)
Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-09-2018
Sample ID No : 2018-12-07-31 /07
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5
Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	15/09/2018	22/09/2018	150.48 X 150.46 X 150.47	22641	8.312	287.5	12.7	12.5
2	RMC	M20	15/09/2018	22/09/2018	150.49 X 150.35 X 150.48	22626	8.331	289.6	12.8	
3	RMC	M20	15/09/2018	22/09/2018	150.54 X 150.36 X 150.38	22635	8.345	273.9	12.1	

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Lab ID : CP-2018-12-07-31 **Date:** 13/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

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Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-31 /08

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

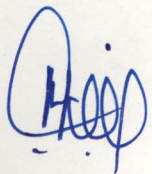
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	15/09/2018	13/10/2018	150.51 X 150.45 X 150.38	22644	8.312	421.2	18.6	18.2
2	RMC	M20	15/09/2018	13/10/2018	150.35 X 150.41 X 150.46	22614	8.331	402.5	17.8	
3	RMC	M20	15/09/2018	13/10/2018	150.47 X 150.42 X 150.46	22634	8.345	411.9	18.2	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 25/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura
2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura
4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-2018

Sample ID No : 2018-12-07-31 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	18/09/2018	25/09/2018	150.46 X 150.52 X 150.47	22647	8.312	289.9	12.8	12.4
2	RMC	M20	18/09/2018	25/09/2018	150.49 X 150.35 X 150.54	22626	8.331	282.8	12.5	
3	RMC	M20	18/09/2018	25/09/2018	150.36 X 150.42 X 150.51	22617	8.345	269.1	11.9	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 16/10/2018

Customer : Assistant Executive Engineer, Vidharanyapura Sub Division, BBMP, Bangalore.

Address : Vidharanyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidharanyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidharanyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidharanyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidharanyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-2018

Sample ID No : 2018-12-07-31 /10

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	18/09/2018	16/10/2018	150.45 X 150.38 X 150.35	22625	8.312	416.3	18.4	18.3
2	RMC	M20	18/09/2018	16/10/2018	150.41 X 150.46 X 150.47	22631	8.331	402.8	17.8	
3	RMC	M20	18/09/2018	16/10/2018	150.52 X 150.46 X 150.44	22647	8.345	421.2	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 Date: 25/09/2018

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura
2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9
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,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyananyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment, Amruthahalli, Sahakaranagara (P)
Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-2018

Sample ID No : 2018-12-07-31 /11

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	18/09/2018	25/09/2018	150.52 X 150.47 X 150.49	22649	8.312	285.4	12.6	12.4
2	RMC	M20	18/09/2018	25/09/2018	150.35 X 150.54 X 150.36	22634	8.331	267.1	11.8	
3	RMC	M20	18/09/2018	25/09/2018	150.42 X 150.51 X 150.49	22640	8.345	289.8	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

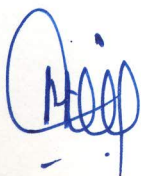
Lab ID : CP-2018-12-07-31 **Date:** 16/10/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-09-2018
Sample ID No : 2018-12-07-31 /12
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	18/09/2018	16/10/2018	150.38 X 150.35 X 150.41	22610	8.312	388.9	17.2	17.7
2	RMC	M20	18/09/2018	16/10/2018	150.46 X 150.47 X 150.52	22640	8.331	409.8	18.1	
3	RMC	M20	18/09/2018	16/10/2018	150.46 X 150.44 X 150.48	22635	8.345	402.9	17.8	

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 25/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura
2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura
4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Apartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-2018

Sample ID No : 2018-12-07-31 /13

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	18/09/2018	25/09/2018	150.47 X 150.49 X 150.35	22644	8.312	292.1	12.9	12.3
2	RMC	M20	18/09/2018	25/09/2018	150.54 X 150.36 X 150.42	22635	8.331	273.9	12.1	
3	RMC	M20	18/09/2018	25/09/2018	150.41 X 150.52 X 150.48	22640	8.345	267.1	11.8	

Note:

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Quality Manager

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BANGALORE

Sig.....
Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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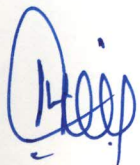
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 16/10/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-09-2018
Sample ID No : 2018-12-07-31 /14
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 16/10/2018

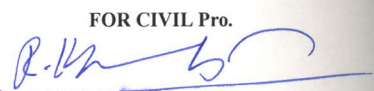
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC	M20	18/09/2018	16/10/2018	150.36 X	22602	8.312	402.3	17.8	18.2
					150.32 X					
					150.44					
2	RMC	M20	18/09/2018	16/10/2018	150.47 X	22634	8.331	416.5	18.4	
					150.42 X					
					150.55					
3	RMC	M20	18/09/2018	16/10/2018	150.43 X	22637	8.345	418.8	18.5	
					150.48 X					
					150.34					

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 Date: 29/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-2018

Sample ID No : 2018-12-07-31 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	29/09/2018	150.49 X 150.35 X 150.54	22626	8.312	285.1	12.6	12.4
2	RMC	M20	22/09/2018	29/09/2018	150.36 X 150.42 X 150.41	22617	8.331	269.1	11.9	
3	RMC	M20	22/09/2018	29/09/2018	150.52 X 150.48 X 150.42	22650	8.345	285.4	12.6	

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Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 20/10/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-2018
Sample ID No : 2018-12-07-31 /02
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	20/10/2018	150.32 X 150.44 X 150.47	22614	8.312	409.3	18.1	18.2
2	RMC	M20	22/09/2018	20/10/2018	150.42 X 150.55 X 150.43	22646	8.331	421.2	18.6	
3	RMC	M20	22/09/2018	20/10/2018	150.48 X 150.34 X 150.42	22623	8.345	402.7	17.8	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 Date: 29/09/2018

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura ,4)Improvements to road and Drains at Gurusharshan layout in ward no 09Vidyananyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-2018

Sample ID No : 2018-12-07-31 /03

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	29/09/2018	150.35 X 150.54 X 150.36	22634	8.312	267.1	11.8	12.3
2	RMC	M20	22/09/2018	29/09/2018	150.42 X 150.41 X 150.52	22625	8.331	291.9	12.9	
3	RMC	M20	22/09/2018	29/09/2018	150.48 X 150.42 X 150.38	22635	8.345	278.4	12.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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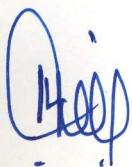
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 20/10/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-2018
Sample ID No : 2018-12-07-31 /04
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	20/10/2018	150.44 X 150.47 X 150.42	22637	8.312	402.9	17.8	17.8
2	RMC	M20	22/09/2018	20/10/2018	150.55 X 150.43 X 150.48	22647	8.331	409.9	18.1	
3	RMC	M20	22/09/2018	20/10/2018	150.34 X 150.42 X 150.46	22614	8.345	398.0	17.6	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 Date: 29/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammate in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in ward no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment, Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-2018

Sample ID No : 2018-12-07-31 /05

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	29/09/2018	150.54 X 150.36 X 150.42	22635	8.312	280.7	12.4	12.4
2	RMC	M20	22/09/2018	29/09/2018	150.41 X 150.52 X 150.48	22640	8.331	289.8	12.8	
3	RMC	M20	22/09/2018	29/09/2018	150.42 X 150.38 X 150.47	22620	8.345	269.2	11.9	

Note:

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All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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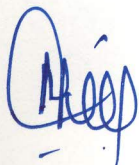
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 **Date:** 20/10/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-2018
Sample ID No : 2018-12-07-31 /06
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	20/10/2018	150.47 X 150.42 X 150.55	22634	8.312	405.1	17.9	18.1
2	RMC	M20	22/09/2018	20/10/2018	150.43 X 150.48 X 150.34	22637	8.331	412.0	18.2	
3	RMC	M20	22/09/2018	20/10/2018	150.42 X 150.46 X 150.35	22632	8.345	409.6	18.1	

Note:

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-07-31 Date: 29/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Apartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-2018

Sample ID No : 2018-12-07-31 /07

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	29/09/2018	150.36 X 150.42 X 150.41	22617	8.312	275.9	12.2	12.1
2	RMC	M20	22/09/2018	29/09/2018	150.52 X 150.48 X 150.42	22650	8.331	267.3	11.8	
3	RMC	M20	22/09/2018	29/09/2018	150.38 X 150.47 X 150.41	22628	8.345	278.3	12.3	

Note:

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/10/2018

Lab ID : CP-2018-12-07-31
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura
2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9
vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura
,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P)
Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-2018
Sample ID No : 2018-12-07-31 /08
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC	M20	22/09/2018	20/10/2018	150.42 X 150.55 X 150.43	22646	8.312	421.2	18.6	18.2
2	RMC	M20	22/09/2018	20/10/2018	150.48 X 150.34 X 150.42	22623	8.331	402.7	17.8	
3	RMC	M20	22/09/2018	20/10/2018	150.46 X 150.35 X 150.34	22622	8.345	411.7	18.2	

Note:

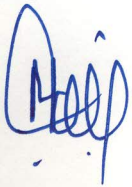
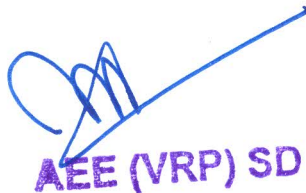
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2018-12-07-31 **Date:** 26-10-2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura, 4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment, Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-10-2018

Sample ID No : 2018-12-07-31/01

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 24-10-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.8	225.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.5
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC- 5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2018-12-07-31 Date: 26-10-2018
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura, 4)Improvements to road and Drains at Gurusharshan layout in ward no 09Vidyananyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-10-2018
Sample ID No : 2018-12-07-31/01
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 24-10-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	25.1%	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2018-12-07-31 Date: 24-10-2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Apartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-2018

Sample ID No : 2018-12-07-31/01

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 22-10-2018

Test Results

Sl.no	Name of Test	Result	Requirements as per IS: 73-2013
1	Penetration at 25°C , in 1/10th mm	68	60 to 70
2	Softening Point, °C	43.8	Min. 40°C
3	Ductility, cm	97	Min. 75cm
4	Flash point, °C	228	Min. 220°C
	Fire point, °C	248	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)**

Lab ID : CP-RW-2018-12-07-31 **Date:** 31-10-2018
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura, 4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyananyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Apartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-10-2018
Sample ID No : 2018-12-07-31/01
Type of Mix : BC-Plant (Bituminous Concrete)
Date of test : 29-10-2018
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	450	450	9.0	91.0	90-100
9.5	850	1300	26.0	74.0	70-88
4.75	650	1950	39.0	61.0	53-71
2.36	650	2600	52.0	48.0	42-58
1.18	350	2950	59.0	41.0	34-48
0.6	700	3650	73.0	27.0	26-38
0.3	300	3950	79.0	21.0	18-28
0.15	450	4400	88.0	12.0	12-20
0.075	350	4750	95.0	5.0	4-10
PAN	250	5000	100	0.0	0

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST REPORT OF AGGREGATE STRIPPING VALUE OF ROAD AGGREGATE
(IS:6241)**

Lab ID : CP-RW-2018-12-07-31 **Date:** 02-11-2018
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyananyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-10-2018
Sample ID No : 2018-12-07-31/01
Type of Mix : BC(Bitumenous Concrete)
Date of test : 29-10-2018

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	96.7	3.3	97.7	Minimum Retained Coating 95%
2	97.8	2.2		
3	98.7	1.3		

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2018-12-07-31 **Date:** 08-11-2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Date of Receipt : 06-11-2018
Sample ID No : 2018-12-07-31/01
Type of Mix : BC (Bituminous Concrete)
Date of test : 06-11-2018

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$ A	5.40	5.60
4	Average percentage	%	5.5	

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Lab ID : CP-RW-2018-12-07-31

Date: 08-11-2018

Sample ID : 2018-12-07-31/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)

: 473

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

: 472

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2018-12-07-31 **Date:** 02-11-2018
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyananyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyananyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Apartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 29-10-2018
Sample ID No : 2018-12-07-31/01
Type of Mix : BC (Bituminous Concrete)
Date of test : 29-10-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow				
Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	10.83	11.66	10KN(min)
2	Marshal flow at 60°C, mm	3.78	3.49	2-4
3	Percent air Voids	4.50	3.68	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.40	13.93	13-15
5	Percent Voids filled with Bitumen(VFB %)	73.82	70.96	65-75
6	Density, g/cc	2.25	2.26	—

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2018-12-07-31 **Date:** 24-10-18
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vpayout in ward no 9 Vidyananyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyananyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyananyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyananyapura,
Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/90/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 22-10-18
Sample ID No : 2018-12-07-31/01
Type of Mix : GSB (Granular Sub Base)
Date of test : 22-10-18
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	896	9790	97.90	2.10	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

AE (VRP) SD

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End of Report



FOR CIVIL Pro.

R.KARTHIK RECHAN

Authorized Signatory

Quality Manager